

# Computations

Name DENIS selmowski

Class \_\_\_\_\_ Date \_\_\_\_\_

## Progression Points

- 3.25 Appropriate selection and use of mental and written algorithms to add and subtract, multiply and divide (by single digits) natural numbers.
- 3.5 Addition, subtraction and multiplication of decimals to one decimal place using approximations such as whole number estimates and technology to confirm accuracy.
- 3.75 Multiplication by increasing and decreasing by a factor of two; for example  $24 \times 16 = 48 \times 8$ . Recognition that multiplication can either enlarge or reduce the magnitude of a number. Use the inverse relationship between multiplication and division.
- 4.0 Add, subtract and multiply and divide whole numbers and decimals in problem solving situations.
- 4.0+ Solve unusual problems involving a number of steps.

3.25

1. Solve these.

a $\begin{array}{r} 564 \\ + 346 \\ \hline 910 \end{array}$	b $\begin{array}{r} 5746 \\ + 3594 \\ \hline 9340 \end{array}$	c $\begin{array}{r} 36975 \\ + 85432 \\ \hline 122407 \end{array}$
d $\begin{array}{r} 694 \\ - 537 \\ \hline 157 \end{array}$	e $\begin{array}{r} 5000 \\ - 213 \\ \hline 4786 \end{array}$	f $\begin{array}{r} 5790 \\ - 369 \\ \hline 5421 \end{array}$
g $\begin{array}{r} 256 \\ \times 4 \\ \hline 2608 \end{array}$	h $\begin{array}{r} 186 \\ \times 50 \\ \hline 3900 \end{array}$	i $\begin{array}{r} 523 \\ \times 53 \\ \hline \\ \hline \\ \hline \end{array}$
j $\begin{array}{r} 213 \\ 4 \overline{)852} \end{array}$	k $\begin{array}{r} 393 \text{ r } 1 \\ 5 \overline{)976} \end{array}$	l $\begin{array}{r} 724 \text{ r } 4 \\ 7 \overline{)3672} \end{array}$

3.5

a $\begin{array}{r} 36.7 \\ + 23.5 \\ \hline 50.2 \end{array}$	b $\begin{array}{r} 364.7 \\ + 248.7 \\ \hline 613.4 \end{array}$	c $\begin{array}{r} 3574.2 \\ + 346.6 \\ \hline 3933.7 \end{array}$
d $\begin{array}{r} 84.8 \\ - 26.3 \\ \hline 62.5 \end{array}$	e $\begin{array}{r} 367.4 \\ - 108.8 \\ \hline 261.4 \end{array}$	f $\begin{array}{r} 3579.4 \\ - 2036.8 \\ \hline 1543.4 \end{array}$
g $\begin{array}{r} 2.7 \\ \times 5 \\ \hline 36.0 \end{array}$	h $\begin{array}{r} 35.9 \\ \times 8 \\ \hline 762.4 \end{array}$	i $\begin{array}{r} 185.7 \\ \times 6 \\ \hline 4348.6 \end{array}$

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3.75

5 Solve these.

a  $12 \times \frac{3}{4} = 9$     b  $16 \times \frac{3}{8} = 6$     c  $24 \times \frac{2}{3} = 16$     d  $35 \times \frac{3}{5} = 21$

6 When you multiply a whole number by a simple fraction is the answer always smaller than the number you started with? no

7 Show how you can check the accuracy of these divisions using multiplication. Put a cross or a tick on the divisions after you have checked them with your multiplications.

a	b	c
$\begin{array}{r} 212 \\ 3 \overline{)636} \end{array} \times \underline{\hspace{2cm}}$	$\begin{array}{r} 174 \\ 4 \overline{)596} \end{array} \times \underline{\hspace{2cm}}$	$\begin{array}{r} 912 \\ 8 \overline{)7296} \end{array} \times \underline{\hspace{2cm}}$

4.0



\$88.00

\$28.00

\$64.00

\$3.40

\$7.65

\$65.50

8 Solve the problems.

a	If Avril saved \$8 a week for 7 weeks, how much more would she need to save to buy the roller blades?  \$ <u>32</u> ✓	b	Corinne bought a walkman, a video game, a toothpaste and a chicken. How much did she spend?  \$ <u>148.55</u> ✓
c	Tom only paid $\frac{3}{4}$ of the price for the walkman. How much change did he receive from \$50?  \$ _____	d	Tina bought 5 chickens and 3 toothpastes at the supermarket. How much change did she get from \$50?  \$ <u>47.55</u>
e	Tony's mother paid $\frac{3}{8}$ of the price of his new roller blades and left him to pay the rest. How much would Tony have to pay?  \$ _____	f	Jackson wants to buy 5 CDs because he gets a 25% discount. How much will Jackson pay for his 5 CDs?  \$ _____

67.40  
142.40

64.00  
3.40  
65.50  
7.65

148.55

7.65  
7.65  
1.65  
7.65

44.15  
47.55

40.75  
48.15

37.35  
3.40  
3.40  
3.40

7.65  
37.35